

What is claimed is:

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1. A quantum well infrared photodetector,
comprising:
a plurality of periods, each period having a barrier
layer and a well layer, each well layer of each period
coupled between two barrier layers,
each well having a well bottom, and a well top, and
each well supporting bound energy states therein,
materials and thicknesses of said periods being
selected such that a bound energy state is substantially
resonant with said well top.
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